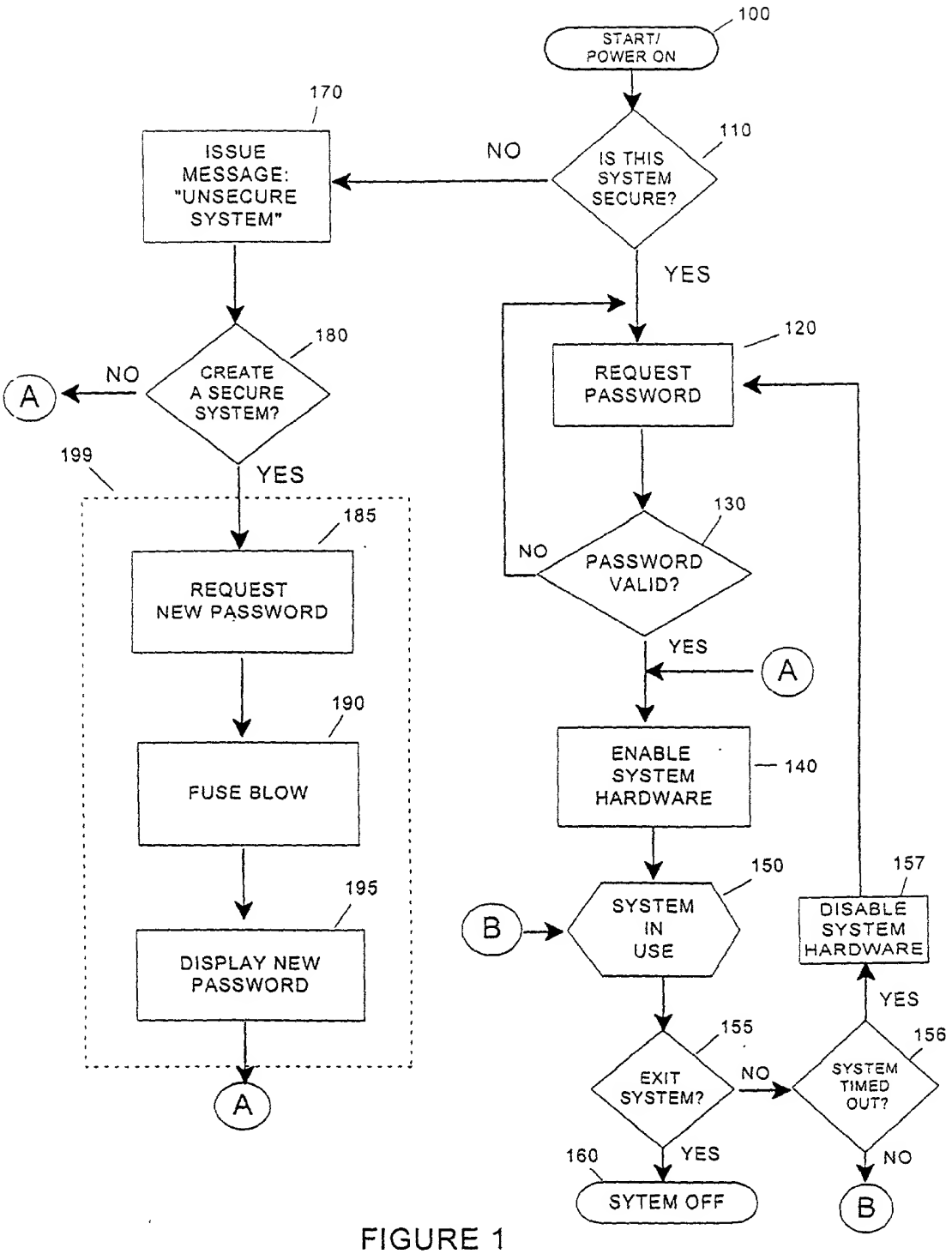
START/ POWER ON
100
IS THIS SYSTEM SECURE?
110
NO
YES
ISSUE MESSAGE: "UNSECURE SYSTEM"
170
CREATE A SECURE SYSTEM?
180
NO
A
YES
199
REQUEST NEW PASSWORD
185
FUSE BLOW
190
DISPLAY NEW PASSWORD
195
A
REQUEST PASSWORD
120
PASSWORD VALID?
130
NO
YES
A
ENABLE SYSTEM HARDWARE
140
SYSTEM IN USE
150
B
EXIT SYSTEM?
155
NO
YES
SYSTEM TIMED OUT?
156
YES
NO
DISABLE SYSTEM HARDWARE
157
160
SYTEM OFF
B

FIGURE 1

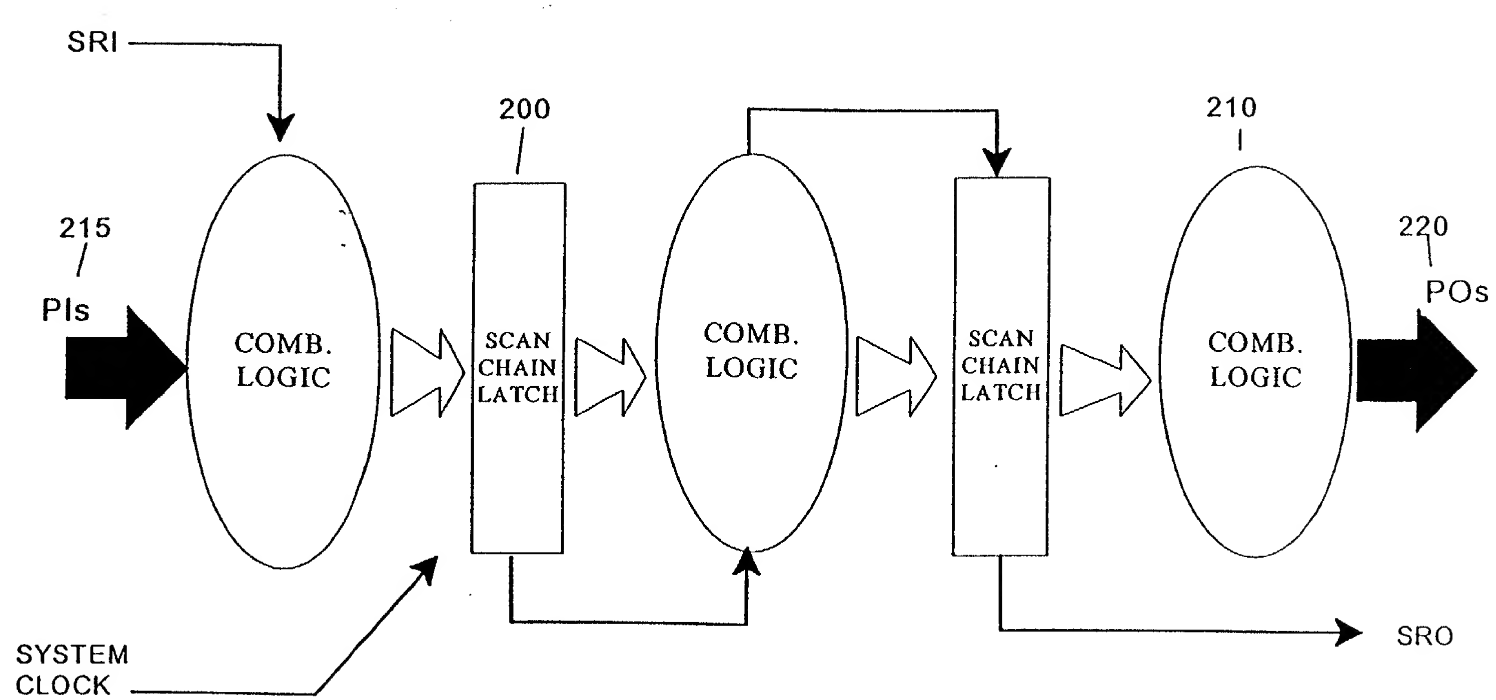

FIGURE 2
PRIOR ART

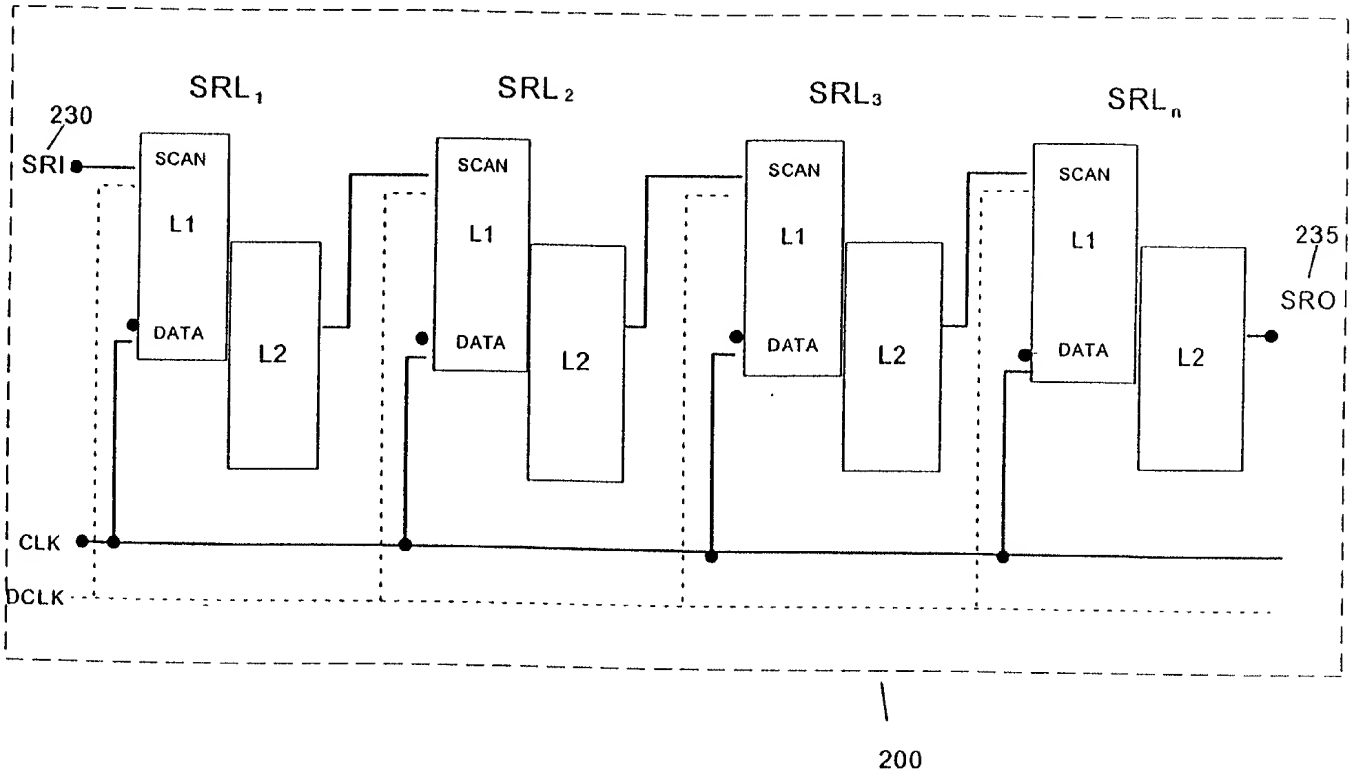

FIGURE 2A
PRIOR ART

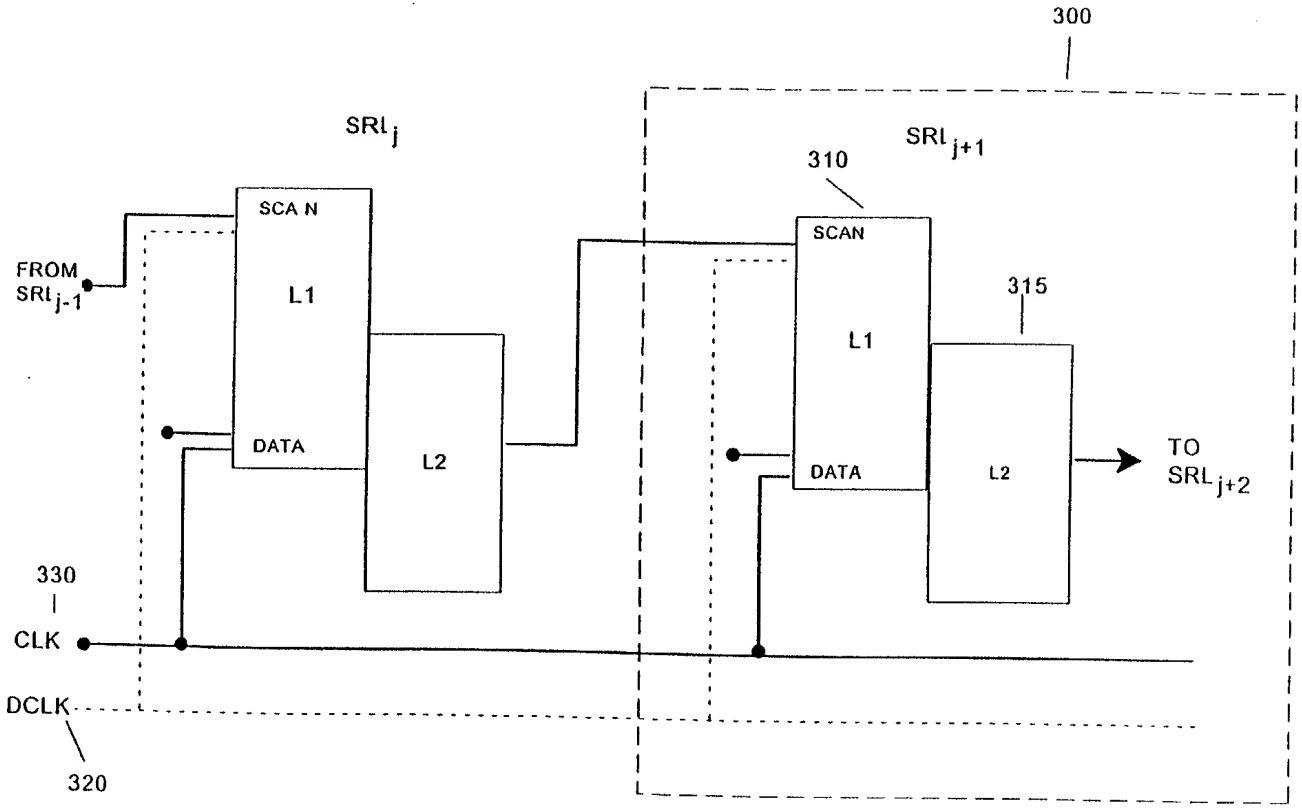

FIGURE 3
PRIOR ART

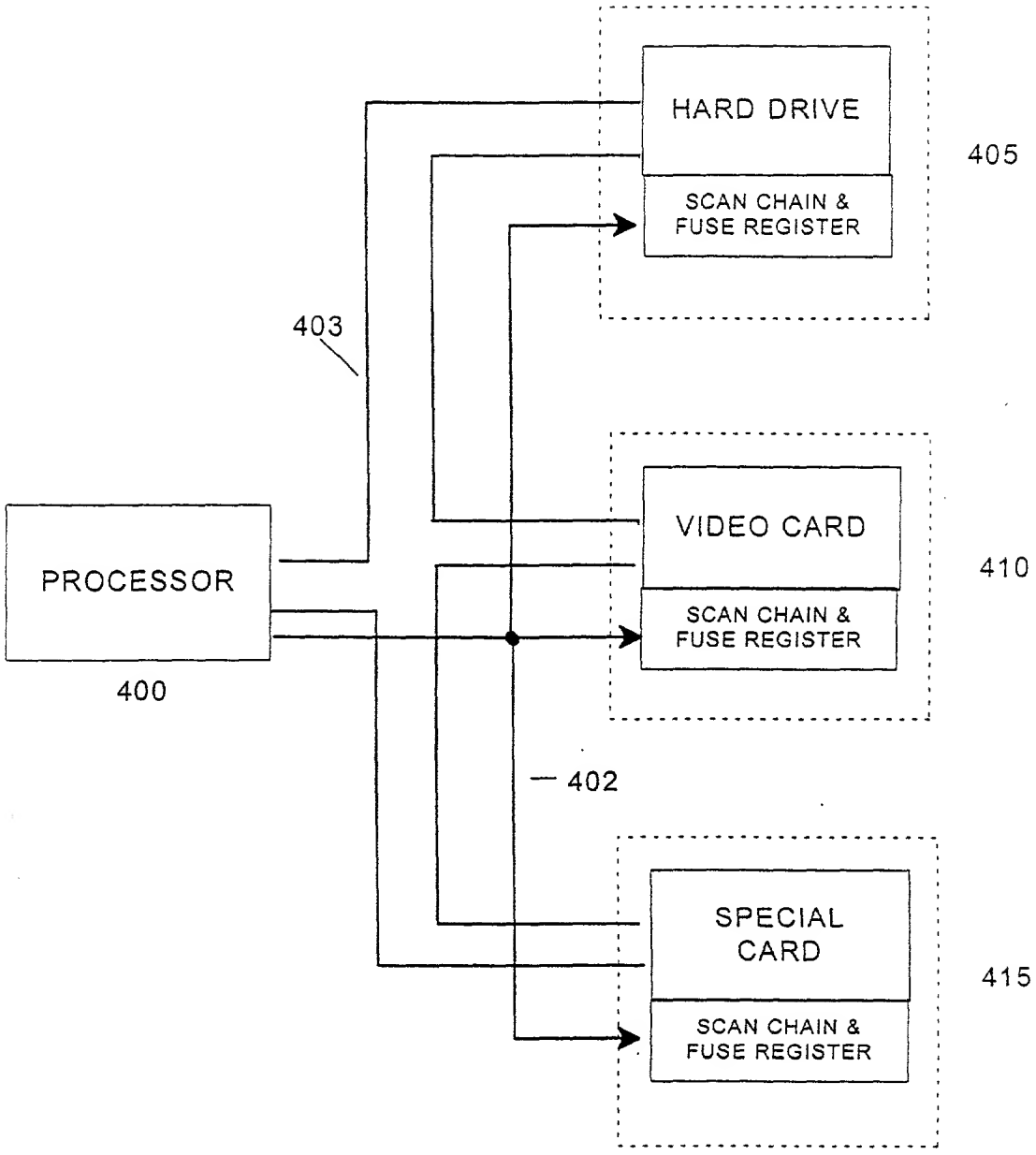
HARD DRIVE
SCAN CHAIN & FUSE REGISTER
405
403
VIDEO CARD
SCAN CHAIN & FUSE REGISTER
410
PROCESSOR
400
402
SPECIAL CARD
SCAN CHAIN & FUSE REGISTER
415

FIGURE 4

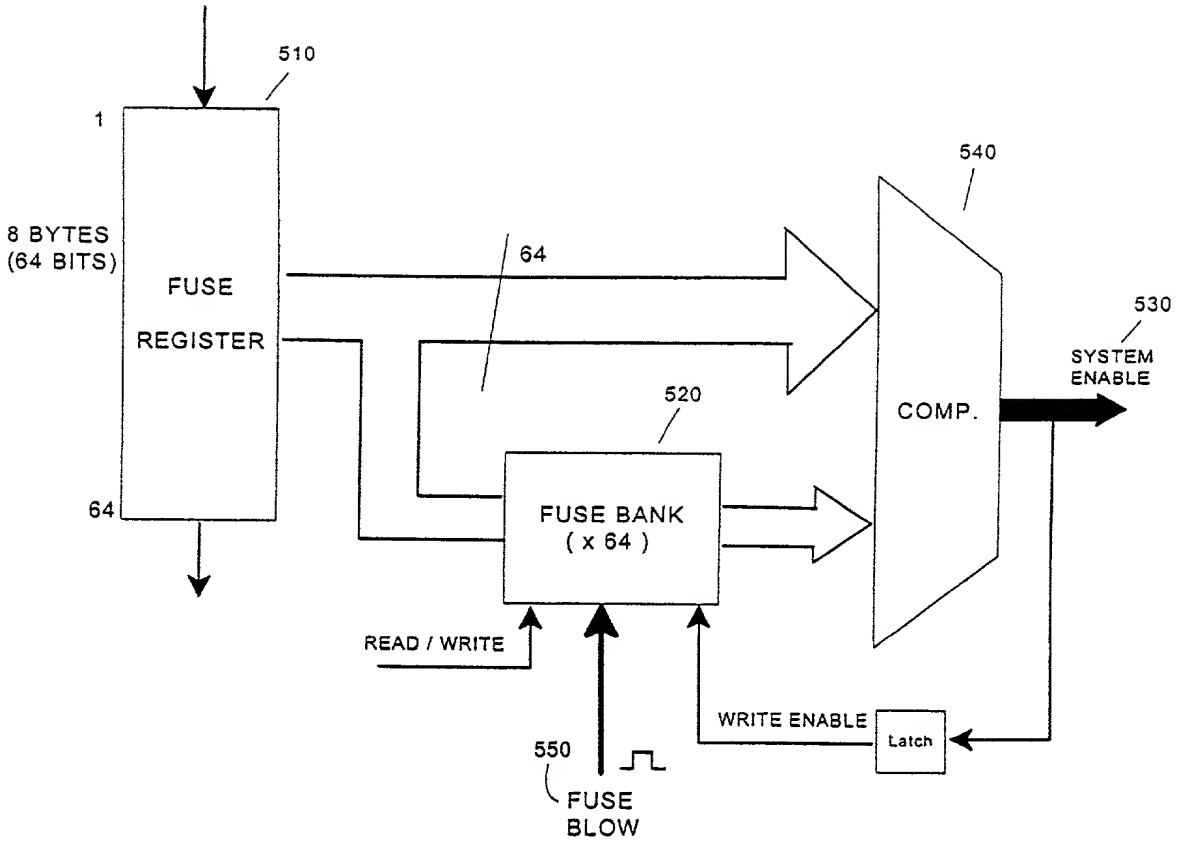
510
1
8 BYTES
(64 BITS)
FUSE
REGISTER
64
64
540
530
SYSTEM
ENABLE
COMP.
520
FUSE BANK
(x 64)
READ / WRITE
WRITE ENABLE
Latch
550
FUSE
BLOW

FIGURE 5

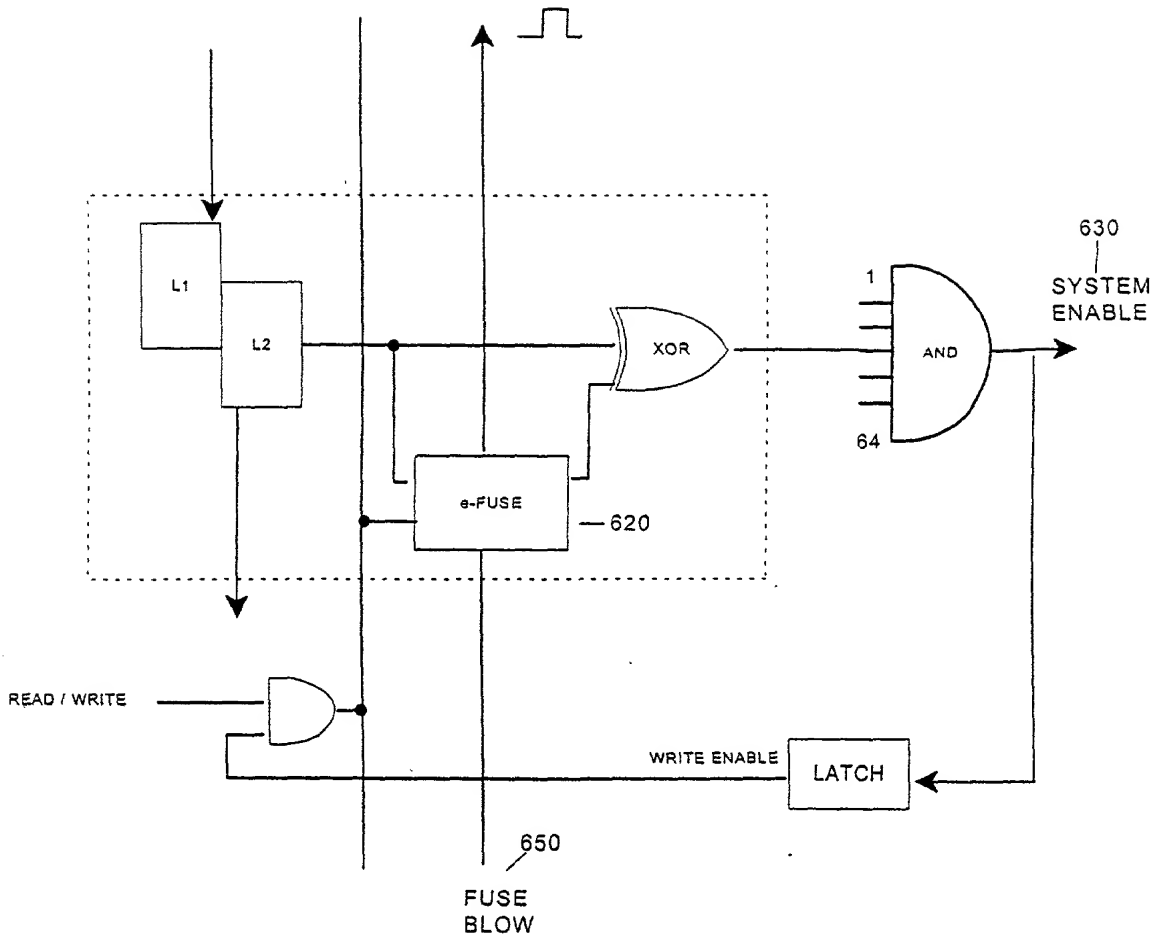
L1
L2
XOR
AND
1
64
630
SYSTEM
ENABLE
e-FUSE
620
READ / WRITE
WRITE ENABLE
LATCH
650
FUSE
BLOW

FIGURE 6

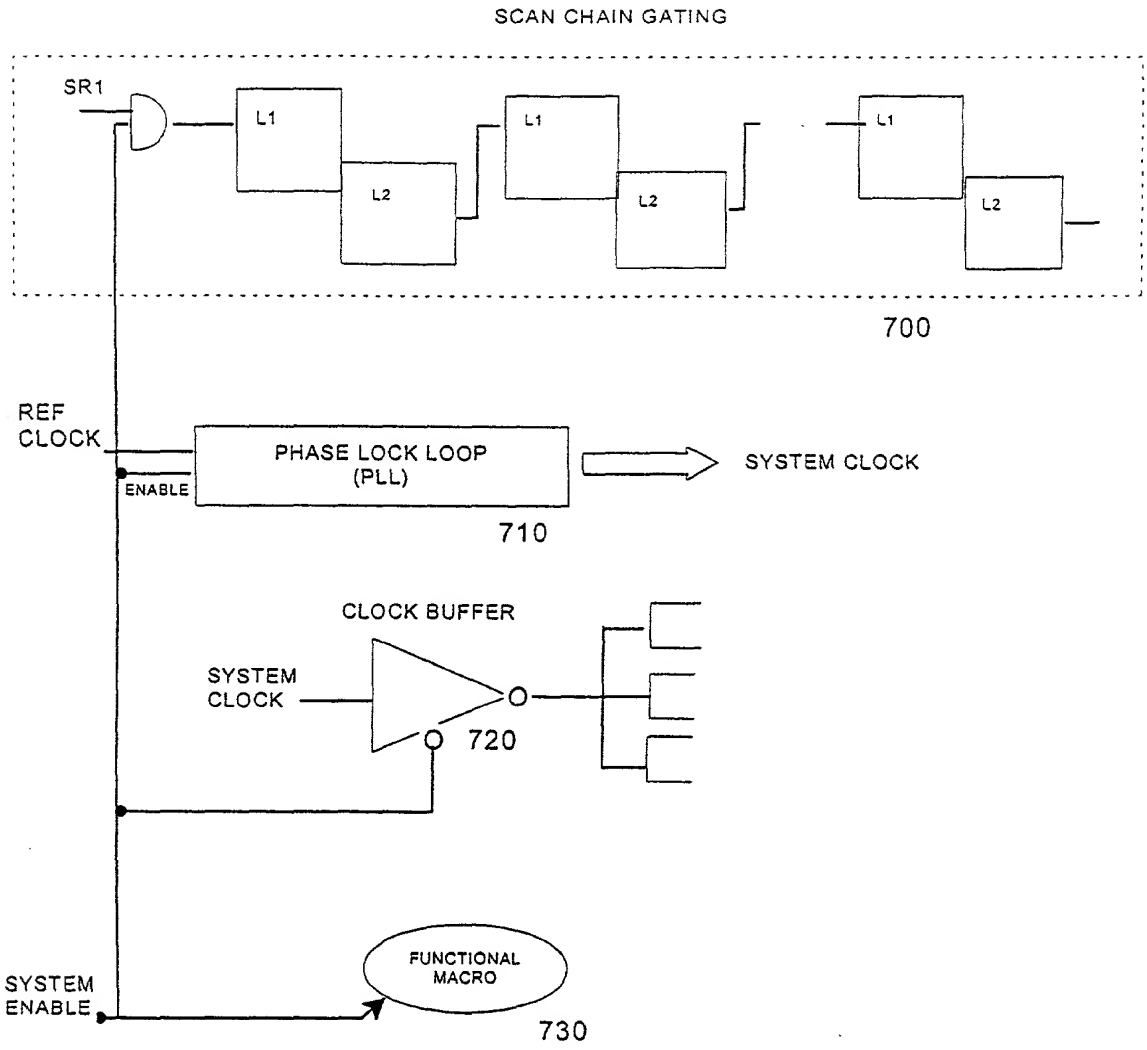
SCAN CHAIN GATING
SR1
L1
L2
L1
L2
L1
L2
700
REF
CLOCK
ENABLE
PHASE LOCK LOOP
(PLL)
710
SYSTEM CLOCK
CLOCK BUFFER
SYSTEM
CLOCK
720
SYSTEM
ENABLE
FUNCTIONAL
MACRO
730

FIGURE 7